AMERICAN SOCIETY FOR TESTING MATERIALS

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~ BULLETIN ~

ENGINEERS' CLUB BUILDING. 1315 SPRUCE ST. PHILADELPHIA, PA.

NUMBER 13 APRIL 30, 1924

Twenty-Seventh Annual Meeting, June 24-27

Program Announced

As previously announced, the Twenty-seventh Annual Meeting of the Society will be held at the Chalfonte-Haddon Hall, Atlantic City, N. J., during the week of June 23. Registration will start Monday, June 23. Monday afternoon and evening and Tuesday morning have been reserved for committee meetings. A notable departure is being made this year by the Committee on Papers in the arrangement of the program by which parallel sessions will be held practically throughout the meeting, beginning Tuesday afternoon, June 24, and closing on Friday evening, June 27. There will be no meetings of the Society on any afternoon after Tuesday, these periods being left open for committee meetings and for recreation. The meeting will be held in fourteen sessions. Two sessions will be held simultaneously at all periods while the Society is meeting except on Wednesday and Thursday evenings when there will be general sessions. At the Wednesday evening session the President's Address will be presented, followed by the annual smoker and dance. The general session on Thursday evening will be devoted to Testing.

In order to make it possible for our members to effect what in the aggregate is a considerable saving in railroad fares, the Society is putting into effect this year the "Certificate Plan" of railroad transportation. This is set forth in detail on page 2 and every member is asked to follow the directions there given when purchasing his ticket to the meeting. The plan will succeed if every one participates.

Don't Forget

To order your PREPRINTS on the enclosed ORDER BLANK

To buy your TRANSPORTATION to the meeting on the CERTIFICATE PLAN

(see page 2)

Program of the Meeting

Two copies of the provisional program for the meeting are enclosed. One is for the personal use of the members; the other we would ask be used to interest some one else in the meeting. You will find more about the use of the second copy on page 4. The Committee on Papers has announced on the program the salient points of most of the reports and papers so that the members may determine which ones they will probably wish to secure in advance of the meeting. Some of the features of the meeting are referred to on page 3.

(*Continued on page 2*)

Meeting with A.S.M.E. at Cleveland, May 29

Symposium on Effect of Temperature Upon the Properties of Metals

Final announcement is now made of the details of the joint meeting with the American Society of Mechanical Engineers at which the Symposium on "Effect of Temperature Upon the Properties of Metals" will be held. The Symposium will form one of the sessions of the A.S.M.E. Spring Meeting and will be held at the Cleveland Hotel, Cleveland, Ohio, Thursday, May 29, at 9 A.M. For the convenience of our members who are planning to attend this meeting, there is enclosed a copy of the *A.S.M.E. News*, which contains detailed announcement of the Spring Meeting, including the program of the meeting, hotels and rates, and other necessary information. Attention is particularly called to the opportunity to secure reduced railroad rates by the certificate plan. Full directions regarding this matter are printed on page 2 of the *A.S.M.E. News*.

The American Society of Mechanical Engineers has extended a cordial invitation to the members of our Society to attend any of the sessions of their Spring Meeting and they will be glad to furnish on request copies of any of the papers for the meeting that are available.

This is the first joint meeting of this kind in which the A.S.T.M. has participated within recent years. The subject is closely related to our activities and it is of tremendous commercial importance to the power group and others that are represented in the membership of the two societies. The joint discussion of the subject is therefore most appropriate, and it is hoped there will be an excellent attendance of A.S.T.M. members at the meeting.

An Important Subject

The subject covered by the Symposium is one of great importance. The use in central station and power plant installations, in oil refineries and elsewhere, of considerably higher temperatures and pressures than were prevalent even a few years ago, has emphasized very forcibly the impor-

(*Continued on page 3*)

Twenty-Seventh Annual Meeting

(*Continued from page 1*)

Preprints

The plan of distributing preprints, inaugurated last year, will be continued this year. Under this plan each member will receive in advance of the meeting only those committee reports and papers which he has requested the Secretary-Treasurer to forward. As heretofore, all the members attending the annual meeting will receive as they register a complete set of preprints of reports and papers available.

There is enclosed an Order Blank for Preprints upon which the reports and papers are listed, being grouped as to subject matter for convenience. Each member who wants preprints must indicate on this blank those which he desires and return the blank promptly to the Secretary-Treasurer. The preprints requested will then be mailed as they become available, the first instalment being placed in the mails four weeks in advance of the meeting (that is, May 27). A second instalment will be mailed about the middle of June. Preprints not included in either of these instalments will be mailed during or after the meeting.

The distribution of preprints will be greatly facilitated if the members will return the order blank for preprints promptly. **PLEASE DO IT NOW. Preprints will not be mailed to members unless requested.**

Hotel Reservations

The prompt advance reservation of rooms on the part of members expecting to attend the annual meeting is advisable. In making reservations at Chalfonte-Haddon Hall, the Society headquarters, members are requested to use the enclosed card addressed to the hotel management. Chalfonte-Haddon Hall is operated entirely on the American plan, and the special rates for members and their guests, as announced in BULLETIN No. 12, are here repeated:

Rooms with Private Bath	PER DAY
Room occupied by one person	$10.00
Room occupied by two persons	$13.00 to $18.00
Rooms with Running Water	
Room occupied by one person	$6.00 to $8.00
Room occupied by two persons	$12.00 to $14.00

It will be recalled that the Chalfonte and Haddon Hall each has its own dining room service so that members who wish to take their meals regularly together should be sure to secure reservations in the same hotel.

Registration at Annual Meeting

Members planning to attend the annual meeting are requested to fill out and mail promptly the accompanying card addressed to the Society. Members should arrange for the registration of ladies in their party promptly on their arrival.

Entertainment Features

The following Entertainment Committee has been appointed:

W. M. Corse, *Chairman*	T. A. Hicks
A. G. Blakeley	E. E. Hughes
J. H. Chubb	H. L. Sherman

The usual entertainment features will be provided. There will be an informal dance and smoker on Wednesday evening. Friday afternoon will be devoted to recreation and at this time the annual Golf and Tennis Tournaments will be held. The committees of the Society have raised a very substantial fund to provide for some of the entertainment features, including the prizes for the two tournaments. Additional entertainment will be provided by the Committee, of which further announcement will be made. The Committee is planning to make these features attractive to our members and the ladies accompanying them.

Reduced Railroad Rates for Annual Meeting by Certificate Plan

In connection with the approaching Annual Meeting, it has been determined to put into operation the "Certificate Plan" for reduced railroad rates, by which members who purchase a ticket to Atlantic City at regular one-way fare and secure a certificate when the ticket is purchased, may obtain their return ticket over the same route at half-fare—provided at least 250 certificates are presented at the meeting for validation. These reduced rates have been offered by the following Passenger Associations:

New England Passenger Association	Canadian Passenger Association, Eastern Lines
Trunk Line Association	Western Passenger Association
Central Passenger Association	Trans-Continental Passenger Association
Southwestern Passenger Association	

Going tickets will be issued between the dates of June 19 and 25, and in the far western points, a day or two earlier.

Particular attention is called to the fact that the reduced fare on the certificate plan is granted on condition that not less than 250 certificates are filed at the annual meeting. **If fewer than 250 are filed, the plan cannot be put into effect.** However, with a total probable attendance of over 1000, there should be no difficulty in having at least 250 certificates validated.

What This Means to You

The saving to members coming from Philadelphia on the certificate plan is 51 cents; from New York, $1.00; from Pittsburgh, $4.32; from Chicago, $7.98. A computation made on the basis of the attendance at the 1923 Annual Meeting reveals the fact that had the fare and half-fare rate been in effect at that time, the members attending the meeting would have made an approximate total saving of $3000, based upon excursion rates. We believe the members will consider this aggregate saving decidedly worth while and will do their share to make it possible this year. If you live near Atlantic City, the saving may be small, but your certificate will count equally with others in securing the reduced rate for your fellow members coming from a distance. You must do your share to help the other members to whom this saving is considerable.

Members Please Note

1. The plan applies to points where the railroad fare is more than 67 cents.
2. Tickets should be purchased for Atlantic City at the regular one-way adult fare.
3. A certificate should be secured when buying your ticket. (Do not make the mistake of asking for a receipt.)
4. Certificate should be presented at the A.S.T.M. registration desk on your arrival at the annual meeting. The certificate requires endorsement by an officer of the Society and validation by a representative of the railroads. Certificates will be validated only on Wednesday, June 25 and Friday, June 27.
5. With the validated certificate a half-rate ticket may be purchased for your return, not later than July 1.
6. Unless a certificate is secured, advantage cannot be taken of the half-rate return fare.
7. The same route must be used for both going and return trip.
8. In some small towns the railroad agent is not supplied with certificate blanks, so that you should either have him secure one, or you can purchase a local ticket to stations where certificates may be obtained.

Some Features of the Annual Meeting

An outstanding feature of the program is the prominence of reports and papers on Metals. Sufficient material in this field has been accepted by the Committee on Papers to extend its consideration over the entire meeting.

Metals

Corrosion.—The subject of Corrosion is one of the big attractions of the meeting. The Symposium on Corrosion-Resistant, Heat-Resistant and Electrical-Resistance Alloys is creating widespread interest and unquestionably will result in the bringing together of a fund of valuable information regarding these alloys and their properties. One of the features of the Symposium is a tabulation of the composition and properties of practically all of the alloys of this type manufactured in this country. Second only in significance are the reports of the Society's two committees A-5 and B-3 on Corrosion. Papers on methods of corrosion testing complete this part of the program.

Endurance of Metals.—The importance of this subject warrants the continued discussion of it in the Society. Three papers are to be presented which will bring before our members detailed reports of endurance tests of ferrous and non-ferrous metals made by the U. S. Bureau of Mines, the U. S. Naval Engineering Experiment Station and the U. S. Air Service.

Cast-Iron Pipe.—On the program are included two important contributions on the subject of cast-iron pipe, one that has engaged the attention of waterworks' and other engineers and the producers for a number of years. These papers will present data on extensive series of tests that have not heretofore been published and a very interesting discussion is being planned.

Effect of Sulfur on Steel.—The Joint Committee on this subject is planning to present the results of two supplementary investigations of rivet steel first reported on two years ago, *i. e.*, endurance tests and an extensive metallographic examination. A preliminary report on the effect of sulfur on the second group of residual sulfur steels corresponding to medium-carbon structural material will also be presented.

In addition, the various metals committees have been particularly active and are presenting reports whose importance can only generally be indicated on the program. Attention should also be called to the several interesting papers on the properties of metals not mentioned above.

Non-Metals

The program with respect to Non-Metals will be found to be equally interesting. Attention is called to a few of the outstanding features:

Cement and Concrete.—The second report of the Joint Committee on Concrete and Reinforced Concrete to be made to the five constituent organizations is probably the outstanding feature of this part of our program. If possible, the Committee on Papers will arrange for the oral presentation at the meeting of a description of and statement of results of important field tests of concrete that have been made under the auspices of the Joint Committee. In addition to the reports of the committees on cement and concrete, there are a number of interesting papers, including the influence of aggregate on shrinking, use of calcium chloride, effect of sulfate solutions on concrete and others.

Road Materials.—The Committee on Road Materials has an excellent report to present. Two papers discuss the subjects of wear tests on concrete pavements and stability of bituminous mixtures, in the light of investigations that have been conducted by the U. S. Bureau of Public Roads.

Miscellaneous.—The standardization activities within the past year in the lumber industry lend particular interest to the report of Committee D-7 and a paper from the Forest Service on proposed new basis of grading of structural timbers. In the same session the reports on coal and coke, rubber, and textiles mark considerable progress. The sessions on Lime, Gypsum and Ceramics, and on Paints, Petroleum Products and Insulating Materials fully cover the activities of the Society in these fields. Particular mention should be made of the excellent report on waterproofing materials.

Methods of Testing and Nomenclature

These two subjects are of very general interest and the Reports of Committees E-1 and E-8 should interest every member. Committee E-1 is making important recommendations respecting tension, compression and Brinell hardness tests of metals, and the standardization of testing sieves. This session also includes several general papers on testing.

Joint Meeting with A.S.M.E.

(*Continued from page 1*)

tance of more exact knowledge regarding the behavior of metals at these elevated temperatures. The properties at very low temperatures also require consideration. The four papers that will introduce the Symposium constitute what is probably the most complete summary of information on the subject that has yet been published. These papers are:

Industrial Applications of Metals at Various Temperatures. L. W. Spring.

Methods of Testing Metals at Various Temperatures and Their Limitations. V. T. Malcolm.

Available Data on the Properties of Irons and Steels at Various Temperatures. H. J. French and W. A. Tucker.

Available Data on the Properties of Non-Ferrous Metals and Alloys at Various Temperatures. Clair Upthegrove and A. E. White.

With the last three papers are given bibliographies that include references to practically all the important tests that have been made.

How to Secure these Papers

It is estimated that these papers will comprise about 140 printed pages. They will be preprinted by the A.S.T.M. in the form of a bound pamphlet and will also be published, together with the discussion, in the 1924 Proceedings.

It has been arranged that the distribution of this pamphlet will be handled through the office of the A.S.M.E. Accordingly there is enclosed a return card addressed to the A.S.M.E. for the use of members of the Society who desire to secure a copy of the pamphlet. Opportunity is also provided on this card for our members to request copies of papers that are to be presented at other sessions of the A.S.M.E. meeting.

If you want this pamphlet, sign and mail this card at once. It is hoped to have it ready for distribution by May 15.

Discussion of the Papers

One of the principal objects of the Symposium is to stimulate discussion of the general subject of properties of metals at various temperatures. Therefore, members who desire to present discussions at the Cleveland meeting are requested to advise the Secretary-Treasurer and to submit, prior to the meeting, a written copy of the discussion. It is particularly desired to secure data upon the properties of metals at high and low temperatures that are not included in existing literature.

Conference on Condenser Tube Specifications

The interest of the American Marine Standards Committee in condenser tube specifications has led it to call a conference of bodies that have prepared or are interested in such specifications, for the purpose of reconciling, if possible, differences that exist in several specifications. The Society is interested because of the work of Committee B-2 on condenser tube specifications that has extended over several years, and arrangements have been made for representation through Sub-Committee II, of Committee B-2, under the chairmanship of W. Reuben Webster. The conference will be held in Washington, D. C., on May 5.

Announcement is made of the following appointments:

Messrs. A. W. Carpenter and H. H. Quimby have been designated as the Society's representatives on the Advisory Committee (to the U. S. Bureau of Standards) on Structures and Fabricated Metals.

Mr. J. O. Handy has been appointed as a representative of the Society on the Corrosion Committee of the National Research Council, succeeding Mr. D. M. Buck, deceased.

A.S.T.M. BULLETIN

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AMERICAN SOCIETY FOR TESTING MATERIALS
Engineers' Club Building, 1315 Spruce St., Philadelphia, Pa.

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Number 13 April 30, 1924

The Annual Meeting Program

In the announcement of the Annual Meeting on the first page of this BULLETIN mention was made of an important change in the arrangement of the program, which merits a word of explanation. The ever increasing volume of business coming before the Society has, under the plan of "single" sessions, made our meetings longer than was thought desirable, the meeting last year having been started for the first time on Monday night. The activities of the Society divide naturally into metals and non-metals. The arrangement of the program heretofore has brought these two groups to the annual meeting for the most part at opposite ends of the program, having the tendency to "split" the membership of the Society rather sharply. Moreover, with sessions of the Society morning, afternoon and evening of practically every day it was no longer possible to avoid the holding of committee meetings without seriously interfering with these sessions. These developments have given the Executive Committee and the Committee on Papers no little concern.

Accordingly, the program this year has been arranged so that two sessions are held simultaneously at all but two periods at which the Society meets. The program on metals extends throughout the meeting and the sessions on non-metals have been scheduled against the metals sessions with little conflict of subject matter and group interest. In this way the meeting has been shortened as much as possible, consistent with opportunity for proper consideration of the reports and papers. The several groups of interests in the Society are brought more closely together, thus providing opportunity for extending acquaintance and good fellowship among our members. With the exception of Tuesday, there will be no afternoon sessions of the Society, these periods being reserved for recreation and committee meetings. Thus, with Monday afternoon and evening, Tuesday morning, and Wednesday and Thursday afternoons available for committee meetings, these meetings can now be held without conflicting with regular Society sessions—something that every committee member will appreciate.

The problems involved in the application of this plan have been carefully studied and the Committee on Papers has prepared what it believes is a well-balanced program. We are confident the members will appreciate its advantages, and the verdict of the meeting itself will determine the ultimate value of this departure from our former practice.

Society Membership

The membership of the Society continues to grow in a very satisfactory manner. In the first four months of this year, 215 new members have joined the Society, compared to 183 for the corresponding period last year. This is a direct reflection of the interest that our committees and the membership generally have taken in the plans of the Executive Committee to build up A.S.T.M. membership.

The standing committees are now renewing their efforts, through the sub-committee organization created last year, to acquaint properly qualified individuals and companies with the activities of the Society and to interest them in membership. The effect of these renewed efforts is already quite noticeable and we should, with the continued help of our members, equal the very gratifying record of 1923.

Now Is the Time to Concentrate Your Efforts

The eight weeks between now and the Annual Meeting offer the best opportunities for securing new members in the Society, because of the interest that our meeting arouses and the fact that new members secure preprints of reports and papers soon after joining. Each member of the Society can do his share with but little effort. There is being sent to each member with this BULLETIN a second copy of the program of the meeting, with which is enclosed an application blank which contains information about the Society and the advantages of membership. The program itself speaks eloquently of our activities and is bound to make a strong appeal to all who are interested in tests and specifications and in advancing the knowledge of engineering materials.

Pass the Program of the Meeting Along

If each member will place this program and the application blank, with a personal word or letter, in the hands of some person who should be in our Society, pointing out items that will be of particular interest, it is certain from past experience that many desirable new members will be secured. In doing this, please explain that new members will immediately be given the opportunity of indicating which of the items on the program they desire to receive in preprint form in advance of the meeting. That is, new members will secure in a short time reports and papers that have made a particular appeal to them and that may have influenced their joining.

500 NEW MEMBERS FOR 1924. EVERY MEMBER HELP.

New Headquarters Completed

Announcement was made in the last BULLETIN of the enlargement of the Society's Headquarters by the acquisition of the fourth floor of 1315 Spruce Street and the renewal of the Society's lease on the enlarged quarters to December 31, 1929. The new quarters on the fourth floor have been completed and are now in use. Two new committee rooms are provided, so arranged that they can be thrown into one large room capable of seating all but the largest of the Society's committees. The Editorial and Publication Department of the Society occupies the remainder of the floor, giving that rapidly growing department much needed space, relieving the congestion in the main office and greatly improving the general appearance of the Society's rooms.

Believing that the members, especially those who have never been at the Society's Headquarters, will be interested in seeing views of the rooms in which our general administrative activities are carried on, the accompanying inset sheet has been prepared as a feature supplement to this issue of the BULLETIN.

New Members, February 1 to April 15, 1924

One hundred and twenty new members were elected from February 1 to April 15, 1924, as follows:

American Die and Forge Co.
American Electrical Works.
American Sheet and Tin Plate Co.
American Tile Engineering Co.
Anness and Potter Fire Clay Co.
Baker-Perkins Manufacturing Corp.
Ballou Thread Co.
Basch, D.
Bassett, W. M.
Binney and Smith Co.
Boyd, W. L.
Bradt, A. L.
Brightman, D. J.
Brocas, J. W.
Bronx Parkway Commission.
Candor, E. R.
Cape Ann Anchor and Forge Co.
Carter, P. J.
Central Illinois Public Service Co. Eng. Dept.
Ceskoslovenska Normalisacni Spolecnost.
Clack, T. A.
Clauser, J. M.
Cobb, F. S.
Corning Glass Works.
Cuba Cane Sugar Corporation.
Day, C. H.
Day, R. E.
Denison Interlocking Tile Corporation.
Dimmick, R. B.
Doherty and Co., Henry L.
Doten, H. L.
Drysdale, G. A.
Easton Engineering Co., Ltd.
Ekroth Laboratories.
Emmons, W. J.
Eriksson, K. E.
Flick, F. B.
Gaboury, L. F.
Gibbs and Hill, Inc.
Gillett, H. W.
Gilmore Oil Co.
Gotham, C. C.
Government Laboratory, The, Bangkok, Siam.
Graham, W. F.
Green and Hopson.
Gregory, H. H.
Griffiths, L. L., Jr.
Haggenjos, John.
Haller, R. T.
Haneberg, H. A.
Hansard, O. H.
Hart, T. R.
Heilman, Otto.
Helpbringer, J. N.
Hodge, W. B.
Hopkins, C. C.
Humboldt Brick Manufacturing Co.
Hybinette, Victor.
Illinois Power and Light Corporation.
Imperial Coal Corporation.
Imperial Refining Co.
Johnson, LeRoy F.
Jones, C. N.
Kokomo Brass Works.
Lee-Zurich Alloys Corporation.
Lessells, John M.
Livingston, Herman.
Logan Iron and Steel Co.
Longview Concrete Pipe Co.
Lonier, R. A.
Loucks, R. L.
Manley, L. B.
Manning Paper Co., Inc., John A.
Maryland Car Wheel Co., The.
Maxwell, A. R.
McCorkle, I. B.
Michie, A. C.
Michigan Engineering Laboratories.
National Association of Wool Manufacturers.
National Clay Works.
National Knitted Outerwear Association.
National Sand and Gravel Association, Inc.
Neely, G. W.
Nelsonville Brick Co.
Nicholson, W. J.
Niles Tool Works Co.
North Iowa Brick and Tile Co.
Ording, C. H.
Pierce Oil Corporation.
Pittsburgh Testing Laboratory, Detroit Branch.
Pittsburgh Testing Laboratory, Buffalo Branch.
Place, C. R.
Prince, N. F.
Puget Sound Power and Light Co.
Riverside Portland Cement Co.
Roman, F. L.
Roxana Petroleum Corporation.
Sargent, J. W.
Schad, Bernard.
Schley, C. E.
Sellers, Philip.
Shale Hill Brick and Tile Co.
Sibley, B. E.
Smith, E. K.
Standard Calorimeter Co., The.
Standard Oil Co. (Indiana).
Teller, L. W.
Thomte, Folke.
Trevallee, O. A.
Trewin, C. S.
Troy Fireproofing Co.
U. S. Dept. of Agriculture Library.
Vulcan Brick and Tile Co.
Western Clock Co.
Western Willite Co.
Whiting Corporation.
Wildy, E. L.
Wood, C. R.
Worley, R. A.
York Metal and Alloys Co.

Deceased Members

We announce with regret the death of four members:

P. H. Dudley, New York Central Lines, New York City.
W. J. Francke, The Francke Co., New Brunswick, N. J.
Raymond M. Howe, Kier Fire Brick Co., Pittsburgh, Pa.
C. H. Stone, Rochester Gas and Electric Corporation, Rochester, N. Y.

Addresses Wanted

Persons who know the present addresses of the members whose names and last known addresses are given below, are asked to advise the Secretary-Treasurer:

Archer, M. T. Engineer, National Supply Co., Houston, Tex.
Coleman, R. E. Chemical Engineer, 9 S. Clinton St., Chicago, Ill.
Downs, Samuel F. Monolith Portland Cement Co., Monolith, Calif.
Norris, Webster. Consulting Rubber Technologist, 469 Washington Ave., Brooklyn, N. Y.
Pfeifer, Herman A. Chemist, Breinig Brothers, Hoboken, N. J.

Nominating Committee for Officers

The returns from the letter ballot on recommendations for appointments on the Nominating Committee for Officers were canvassed by a committee of tellers appointed by the President, consisting of Messrs. E. C. Lathrop and G. W. Cooke. The report of this committee to the Executive Committee showed that 332 legal ballots had been voted. Of the votes cast one member received 40; one 26; one 18; two 17; one 14; two 13; one 10; one 9; one 8; five 7; six 6; nine 5; ten 4; and 280 fewer than 4 votes each.

The Executive Committee accordingly made the following appointments on the Nominating Committee in general conformity with the indications of this vote:

Members	*Alternates*
H. S. Betts	C. J. Hogue
John Brunner	A. A. Stevenson
G. H. Clamer	W. H. Bassett
E. H. Grafton	W. W. Evans
T. D. Lynch	J. M. Darke
H. T. Shelley	R. C. Purdy

Ex-Officio

George S. Webster C. D. Young George K. Burgess

Acceptances of their appointments were received from all members and all alternates. The meeting of the committee was held on March 7 at the Society Headquarters and was attended by every member with the exception of Past-President C. D. Young, who at the last moment found it impossible to attend, and Mr. John Brunner, in whose place Mr. A. A. Stevenson served as a member.

Nominations for Officers

The following nominations for officers reached by unanimous action of the Nominating Committee are announced:

For President:
F. M. Farmer, Chief Engineer, Electrical Testing Laboratories, New York City.

For Vice-President:
J. H. Gibboney, Chemist, Norfolk and Western Railroad, Roanoke, Va.

For Members of Executive Committee:
William Campbell, Howe Professor of Metallurgy, School of Mines, Columbia University, New York City.
A. E. Jury, Manager, Textile Section, United States Rubber Co., New York City.
Anson Marston, Dean of Division of Engineering, Iowa State College, Ames, Iowa.
John A. Mathews, Vice-President, In Charge of Metallurgy, Crucible Steel Co. of America, New York City.

Each of the above nominees has indicated in writing his acceptance of his nomination, and as provided in the By-Laws these nominations are now formally announced to the membership at large "through a notice issued during the last week in April." The By-Laws provide that "further nominations, signed by at least 25 members, may be submitted to the Secretary-Treasurer in writing by May 20, and a nomination so made, if accepted by the member nominated, shall be placed on the official ballot" which "shall be issued to the members between May 20 and June 1."

A.S.T.M. Committee Activities

As this Bulletin goes to press, practically all of the standing committees have held their last meeting before the Annual Meeting of the Society and are engaged in the preparation of their annual reports. Within the next eight weeks these reports will be preprinted for advance distribution, thus acquainting the membership in detail with the committees' work for the year. The section on "A.S.T.M. Committee Activities" has therefore been limited to an account of the very successful meetings of the Metals Committees in Pittsburgh last month.

The usual Schedule of Committee Meetings is omitted in view of the fact that the next meeting of most of the committees will be held during the Annual Meeting, for which arrangements will be made by the Secretary-Treasurer's office.

American Engineering Standards Committee

Mr. C. D. Young has been re-appointed as one of the A.S.T.M. representatives on the A.E.S.C. for a term of three years.

The Society has appointed V. T. Malcolm and H. V. Wille as its official representatives on the Sectional Committee on Pipe Flanges and Fittings. The Sectional Committee has submitted to the A.S.T.M., proposed specifications for Castings for Valves and Fittings, Steel for Bolting Material, and Steel Flanges, for its consideration and final action. For this purpose and for the development of other specifications as required, Committee A-1 on Steel has organized a new Sub-Committee on Steel Flanges and Fittings as announced in BULLETIN No. 12. Mr. Malcolm is chairman of the sub-committee.

Sectional Committee on Fire Tests of Material and Construction.—The U. S. Bureau of Standards, the Fire Protection Group and the A.S.T.M., as joint sponsors, have completed the personnel of this Sectional Committee, consisting of 17 members, which will "study the present Tentative American Standard Specifications for Fire Tests of Materials and Construction (A.S.T.M. C 19 – 18) with a view of adopting necessary amendments thereof, including amendments outlined in the 1922 report of Committee C-5 on Fireproofing of the A.S.T.M., and extend the standards to include specifications for fire tests of materials and structural units which constitute permanent integral parts of a finished building." The sponsors have submitted the personnel to the A.E.S.C. for formal approval. In the meantime, a meeting for organization has been called for May 2 in the offices of the Underwriters' Laboratories, New York City. The formation of this Sectional Committee brings officially under A.E.S.C. procedure an informal joint committee that has cooperated for a number of years with Committee C-5 in the preparation of the present specifications. Ira H. Woolson, Chairman of Committee C-5, is the representative of the A.S.T.M. on the Sectional Committee.

Sectional Committee on Numbering of Steels.—The Society of Automotive Engineers and the A.S.T.M., as joint sponsors, have completed the personnel of the Sectional Committee on Numbering of Steels, consisting of 21 members, which will "develop a numbering system for forging, casting, and structural steels, including plates, but not including tool steels, the numbering system to be based on definite specifications." The sponsors will submit the personnel to the A.E.S.C. for formal approval. A meeting for organization has been called for May 8 in the Navy Department Building, Washington, D. C. The Society's representatives on the committee are: L. H. Fry, T. D. Lynch and H. H. Morgan.

A.S.T.M. Standards Approved.—The following A.S.T.M. Standards have been approved recently by the A.E.S.C. as Tentative American Standard: General Methods of Testing Cotton Fabrics (D 39 – 20), Specifications for Welded and Seamless Steel Pipe (A 53 – 21) and Specifications for Welded Wrought-Iron Pipe (A 72 – 21).

A.S.T.M. Standards Submitted to the A.E.S.C.—Since the last announcement in the November BULLETIN, the following A.S.T.M. Standards have been submitted to the A.E.S.C. for approval as Tentative American Standard: Specifications for Hard-Drawn Copper Wire (B 1 – 23), for Medium Hard-Drawn Copper Wire (B 2 – 15), and for Tinned Soft or Annealed Copper Wire for Rubber Insulation (B 33 – 21).

The A.S.T.M. has been designated as sponsor for the following standards: Specifications for Refined Wrought-Iron Bars (A 41 – 18), for Wrought-Iron Plates (A 42 – 18), and for Staybolt, Engine-Bolt and Extra-Refined Wrought-Iron Bars (A 84 – 21).

Sectional Committee on Methods of Testing Wood Meets at Madison

The Sectional Committee on Methods of Testing Wood held its second meeting at the Forest Products Laboratory, Madison, Wis., on April 14. This sectional committee was organized in December, 1922, under the Rules of Procedure of the American Engineering Standards Committee by the U. S. Forest Service and the A.S.T.M. as sponsors. The sectional committee has reviewed the A.S.T.M. Tentative Methods of Testing Small Clear Specimens of Timber (D 143 – 22 T) and is recommending some minor revisions which will be acted upon by the Society at the coming annual meeting. The Sectional Committee has also prepared Tentative Methods for Conducting Static Tests of Timbers in Structural Sizes, based upon the extensive tests of the U. S. Forest Service, which are being referred to Committee D-7 on Timber and will probably be included in its annual report with the recommendation that the Society publish the methods as tentative.

In connection with the meeting, the committee inspected the various laboratories of the U. S. Forest Service and witnessed the making of a number of tests on timber. The following members and guests were present: Messrs. Markwardt (chairman), Withey (secretary), Anderson (representing W. T. Dorrance), Gulick, Holtman, Killam, Newlin and Warwick.

Progress in Lumber Standardization

Two reports of the Central Committee on Lumber Standards have been presented to the U. S. Department of Commerce. At a general conference in Washington, D. C., December, 1923, simplified practice recommendations covering lumber classifications, grade names and classifications, standard and extra standard yard lumber sizes, methods of lumber measurement, etc., were accepted and have been published by the Department, effective July 1, 1924. At a second conference in Washington, April 22, certain minor modifications and additional requirements covering yard lumber were approved. Although the principal interest of the A.S.T.M. in this work is in connection with structural timbers, which have not yet been reported upon, a section on Definitions of Defects and Blemishes of Yard Lumber considered at the recent meeting is of interest to Committee D-7 on Timber and has been referred to the committee for study.

Progress in Dictionary of Specifications

The work of the U. S. Department of Commerce in the preparation of a dictionary or handbook of specifications for supplies purchased by the Federal, State and Municipal Governments and public institutions is progressing rapidly. Classified lists of specifications covering Textiles, Rubber Goods, Stone, Clay and Glass Products, and Fuels, Lubricants and Miscellaneous Oils have been sent to interested organizations and individuals for comment, and other lists are in preparation. An Advisory Committee cooperating with the Department of Commerce in this work will make recommendations for classification, form and size, and scope of the final publication. The Society is represented on this committee by Vice-President W. H. Fulweiler.

Our stock of Vols. I and III of the PROCEEDINGS has been exhausted for a long time. An Association abroad is desirous of securing Vols. I and III to complete its set of PROCEEDINGS. Any members who are willing to dispose of these two volumes are requested to so advise the Secretary-Treasurer.

A.S.T.M. Metals Committees Hold Successful Three-Day Session at Pittsburgh

Meetings of Seven Committees and Thirty-Seven Sub-Committees Held at William Penn Hotel, March 12, 13 and 14

Seven metals committees of the Society joined in a group meeting in Pittsburgh on Wednesday, Thursday and Friday, March 12, 13 and 14. The result exceeded our best expectations and the three-day session was a pronounced success. Not only were the meetings well attended and considerable business completed, but the opportunities for social intercourse were such as to make the meetings of greater interest and value to the members present. The meetings were held on the seventeenth floor of the William Penn Hotel.

Committee Meetings

The following committees held meetings: A-1 on Steel, A-4 on Heat Treatment of Iron and Steel, A-5 on Corrosion of Iron and Steel, A-6 on Magnetic Properties, B-2 on Non-Ferrous Metals and Alloys, B-3 on Corrosion of Non-Ferrous Metals and Alloys, and E-4 on Metallography. Meetings were held Wednesday morning, afternoon and evening, Thursday morning and evening, and Friday morning and afternoon. On Wednesday, Committees A-6, B-3 and E-4 met, and there were also meetings of seventeen sub-committees of Committees A-5, B-2, B-3, and E-4. On Thursday, Committees A-5 and B-2 met, also twelve sub-committees of Committees A-1, A-4, and B-2. On Friday, Committees A-1 and A-4 and eight sub-committees met. Following are brief abstracts of the work accomplished by the committees at these meetings:

Committee A-1 on Steel.—There were 45 members and guests present. The committee received reports from all of its 22 sub-committees, and in general approved their recommendations. Revisions approved in the specifications for bridge steel are the result of agreement with the American Railway Engineering Association. Revised specifications for wheels for electric service and for steam railway service, in line with A.R.A. specifications, were approved. Revisions in the castings specifications relating to the requirements for heat treatment were approved. Revisions in the specifications for steel pipe to provide for double-extra-strong pipe were approved. Revisions proposed in the tentative specifications for boiler tubes were referred to letter ballot with the understanding that if adopted these specifications would be recommended to the Society for advancement to standard, in which case they will supersede Specifications A 28, A 52, and A 38. Revisions in specifications for boiler steel for stationary service were proposed as a result of agreement reached with the A.S.M.E. Boiler Code Committee.

Minor revisions in the methods for chemical analysis of steel were approved. Proposed Methods of Sampling Finished Steel Material for Check Analysis were acc pted as tentative. Sub-Committee XIII on Methods of Physical Tests reported on the work being done by Committee E-1 on Methods of Testing with respect to tension, compression and Brinell hardness tests of metals. The sub-committee recommended that Committee A-1 approve the placing of the tolerance of ± 0.01 in. on the diameter of the standard 0.5-in. test specimen, which was done.

Proposed revised specifications for carbon tool steel and proposed new Tentative Specifications for High-Speed Tool Steel were approved, including Recommended Practices, of the American Society for Steel Treating, for Heat Treatment of Tool Steels appended thereto for information. Minor revisions in specifications for screw stock and commercial bar steels were approved. Progress in the work on specifications for cold-rolled strip steel, automobile sheet steels, pipe flanges and fittings and gear steels was reported.

Committee A-4 on Heat Treatment of Iron and Steel held a well-attended meeting with 29 members and guests present. Some slight revisions in the recommended practice for annealing of carbon-steel objects were approved. A completely revised recommended practice for the heat treatment of steel castings was referred to letter ballot for recommendation as standard. A general report of progress on nomenclature and definitions was presented. Definitions of Terms Relating to Heat Treatment Operations drawn up by the American Society for Steel Treating, and Recommended Practice of the A.S.S.T. for Heat Treatment of Tool Steel have been referred to the committee for criticism.

Committee A-5 on Corrosion of Iron and Steel held a meeting at which 27 members and visitors were present. The committee designated its chairman, J. H. Gibboney, and W. H. Walker to draw up an appropriate expression of the sentiments of the members on the loss by death of the secretary of the committee, D. M. Buck. The committee then considered in detail the reports of its various sub-committees. It was voted to include in the annual report the results of the October and April inspections of the test racks at Fort Sheridan and Annapolis. The report on the total immersion tests was accepted for publication, it being decided to state simply the facts noted but to draw no conclusions at this time. New specifications for Hot-Dipped Galvanized Sheets were presented and after some discussion accepted as tentative. Complete reports on Accelerated Tests and Field Tests of Metallic Coatings will be published in the annual report.

Committee A-6 on Magnetic Properties held a meeting at which six members and guests were present. The committee voted to recommend for adoption as standard the tentative methods of test for magnetic properties, with certain minor revisions. There was considerable discussion of the question of preparing specifications for magnetic materials and it was the consensus of opinion that the time is not yet opportune to prepare such specifications.

Committee B-2 on Non-Ferrous Metals and Alloys met with 36 members and guests present. Tentative revisions in the specifications for lake and electrolytic copper relating to purity, resistivity and methods of sampling were approved. Recommendations for revisions in specifications for Admiralty condenser tubes were approved, as well as the extension of the specifications for copper and brass pipe to meet the commercial requirement for extra heavy sizes. Proposed new specifications for Muntz Metal Condenser Tubes and 70–30 Brass Condenser Tubes were accepted as tentative. Revisions in the specifications for maganese bronze ingots were approved and proposed new Specifications for Manganese Bronze Castings were accepted as tentative. A report by the U. S. Bureau of Standards on the effect of impurities on the properties of babbitt metal will be included with the annual report. Revised specifications covering four aluminum alloys designed to supersede the present standard specifications were approved and the annual report will include a statement on the present wrought light aluminum alloys commercially available. New specifications for phosphor tin, phosphor copper and silicon copper were accepted as tentative.

William Campbell was re-elected chairman and P. D. Merica was re-elected secretary of the committee.

Committee B-3 on Corrosion of Non-Ferrous Metals and Alloys. held a meeting at which 28 members and guests were present. The committee considered the detailed reports of the sub-committees on total immersion, alternate immersion, spray and electrolytic tests, outlining details of methods to be used in the corrosion tests on non-ferrous metals and alloys (see BULLETIN No. 11, November, 1923). With a few minor modifications the reports were accepted and the methods will be published in the annual report.

E. C. Lathrop was re-elected chairman and Sam Tour secretary of the committee. H. S. Rawdon was elected vice-chairman.

Committee E-4 on Metallography met with 16 members and guests present. A report on a method for drying specimens and noting nine recent papers on etching was accepted. Certain minor revisions were approved in the Definitions of Terms Relating to Metallography. Reports of progress were received from the Sub-Committees on Thermal Analysis and Micro-Hardness. The committee voted to recommend to advancement as standard the tentative methods of metallographic testing of iron and steel and of metallographic testing of non-ferrous metals and tentative recommended practice for photography.

H. C. Boynton was elected chairman of the committee and G. F. Comstock was re-elected secretary.

The following 172 members and visitors registered at the meeting:

R. J. Anderson, J. P. Armour, R. H. Arnold, James Aston, J. A. Aupperle, W. M. Barr, W. H. Bassett, H. A. Bedworth, R. M. Bird, M. C. Blest, E. Blough, H. M. Boylston, H. C. Boynton, W. D. Brown, H. G. Burnham, C. W. Burrows, W. H. Caldwell, W. B. Canfield, A. W. Carpenter, H. Y. Carson, C. M. Chapman, H. E. Chase, G. L. Christy, G. H. Clamer, G. H. Cole, G. F. Comstock, O. W. Cook, W. A. Cooper, W. J. Corbett, W. M. Corse, W. A. Cowan, S. I. Cox, Frederick Crabtree, E. W. Craig, F. S. Crane, S. Crocker, W. J. Cutler, J. M. Darke, H. H. Davis, R. S. Dean, A. V. de Forest, R. H. Dibble, E. H. Dix, Jr., W. A. Dobson, G. E. Doke, R. L. Duff, E. J. Edwards, E. W. Ehn, F. C. Elder, G. K. Elliott, A. R. Ellis, M. A. Fair, P. V. Faragher, A. C. Fieldner, W. H. Finkeldey, F. B. Flick, H. J. Force, W. K. Frank, J. R. Freeman, Jr., T. S. Fuller, J. H. Gibboney, H. W. Gilbert, J. E. Gladden, M. E. Golding, G. M. Goodspeed, L. B. Grindlay, A. P. Harchrode, H. L. Hendershott, R. E. Hess, J. H. Higgins, N. B. Hoffman, G. A. Hopkins, F. A. Hull, W. G. Humpton, J. S. Huston, E. T. Ickes, A. H. Jameson, R. H. Jeffers, Zay Jeffries, J. B. Johnson, R. P. Johnson, R. L. Johnston, Jesse L. Jones, G. L. Kelley, E. F. Kenney, L. H. Kenney, F. O. Kichline, H. C. Knerr, C. S. Koch, H. J. Kock, E. C. Lathrop, J. O. Leech, J. M. Lessells, G. E. F. Lundell, T. D. Lynch, A. R. MacGregor, R. S. MacPherran, Vincent T. Malcolm, C. E. Margerum, C. H. Marshall, D. L. Mathias, M. E. McDonnell, W. P. McFarland, R. J. McKay, P. E. McKinney, Charles McKnight, Jr., P. D. Merica, A. Merrill, William J. Merten, A. L. Meyer, Alexander Milne, N. L. Mochel, Grant Monk, H. H. Morgan, H. T. Morris, J. G. Morrow, G. L. Norris, H. B. Oatley, E. V. Pannell, N. K. B. Patch, H. R. Payne, Andrew Pinkerton, William B. Price, O. L. Pringle, H. S. Rawdon, H. R. Redington, G. A. Reinhardt, C. T. Ressler, G. S. Rutherford, C. F. W. Rys, G. W. Saathoff, R. L. Sanford, G. W. Sargent, M. F. Sayre, M. H. Schmid, N. H. Schwenk, A. J. Sheldon, G. S. Shoop, J. J. Shuman, V. Skillman, H. E. Smith, W. P. Smith, F. N. Speller, Thomas Spooner, L. W. Spring, H. A. Stacy, H. A. Stapler, J. V. R. Stehman, R. W. Steigerwalt, A. A. Stevenson, T. G. Stitt, J. A. Succop, R. L. Templin, H. P. Tiemann, S. Timoshenko, Sam Tour, J. L. Uhler, C. P. Van Gundy, W. H. Walker, F. M. Waring, C. L. Warwick, G. B. Waterhouse, W. Reuben Webster, W. M. Weil, A. E. White, T. H. Wickenden, H. M. Williams, L. H. Winkler, J. K. Wood, W. J. Wooldridge, G. H. Woodroffe, J. B. Young.

Social and Entertainment Features

The arrangements for social and entertainment features were placed in the hands of the following committee of Pittsburgh members of the Society: F. N. Speller (chairman), R. J. Anderson, F. C. Elder, N. B. Hoffman and T. D. Lynch. This committee worked hard to make these features of the meeting a success and the thanks of all who attended are due them for the excellent way in which they provided for the entertainment of those present. To meet miscellaneous expenses of entertainment, the committee raised a fund of about $250 to which seventeen companies in Pittsburgh and vicinity contributed.

On Wednesday evening, March 12, there was an informal dinner, which was attended by about 65 members. Past-President G. H. Clamer presided and Dr. Zay Jeffries, Director of Research of the Aluminum Company of America, gave a brief talk on "The General Trend of Science and Metallurgy," which was very much appreciated and enjoyed.

On Thursday afternoon, the members made an inspection trip to the plant of the Westinghouse Electric and Manufacturing Co. at East Pittsburgh. In the time available only certain features of particular interest to our members could be visited. These included the assembly of electric locomotives, construction of large turbines, drop forging of turbine blades, press shop, brass foundry, copper shop, physical testing laboratory, and transformer department. The inspection was most enjoyable and instructive and the courtesy of the Westinghouse Electric and Manufacturing Co. in making it possible is deeply appreciated.

Following the inspection, the group got together for another informal dinner, attended by about 60 members, at which Past-President A. A. Stevenson presided. The speaker was Dr. E. R. Weidlein, Director of the Mellon Institute, who described in a most interesting way some of the Institute's standardization projects.

As a fitting close to the three-day session the local committee provided a dinner and smoker for Friday evening. And a most enjoyable affair it was. There were nearly 90 members and guests present. Mr. George Neilson, President of the Braeburn Steel Co., was toastmaster and his witticisms and humor were delightful. Excellent music was provided, including a quartette from the Edgar Thompson Steel Works that obliged with many pleasing selections. There were also two amateur entertainment skits, one by Mr. Charles Stotz, an architect of Pittsburgh, and the other by Professor Ely of the Carnegie Institute of Technology, who entertained with various sleight-of-hand tricks. One of the big features of the smoker was the singing by the members of a song written especially for the occasion by H. P. Tiemann of the Carnegie Steel Co. Entitled "In the Sweet By and By" and written to the air of "The Bowery," the poem was an exceedingly clever take-off on the work of some of our committees. The sentiment was unanimous that the occasion had been a most enjoyable one and merited repetition.

The entire meeting was so highly successful and the committees participating in it have expressed such hearty approval of the idea, that it is believed similar group meetings of the Metals Committees can successfully be held in March and October of each year. Plans are being studied for reserving a specified week in these months, and varying the place of meeting to suit the convenience of different groups of members.

List of Publications

Proceedings, Volume 23 (1923).—The PROCEEDINGS for 1923 in two parts: Part I, committee reports with discussions and new and revised tentative standards (1006 pp.); Part II, technical papers with discussions (683 pp.). Prices to non-members: paper $12.00, cloth $13.00, half-leather $16.00. To members for extra copies: $7.00, $8.00, and $11.00, respectively.

Book of A.S.T.M. Standards.—Issued triennially. The 1921 edition (890 pp.) and the 1922 Supplement (54 pp.) and the 1923 Supplement (126 pp.) containing 192 standards adopted by the Society. Prices to non-members: cloth, $11.00; half-leather $12.50. To members for extra copies: $8.00 and $9.50, respectively.

Supplements to Book of Standards.—The twelve 1922 standards forming the first supplement to the 1921 Book of A.S.T.M. Standards are issued in a pamphlet of 54 pages. Price to non-members: $1.00. To members for extra copies: $0.75.

The twenty 1923 Standards, with one revision of an existing standard, forming the second supplement to the Book of Standards are issued in a pamphlet of 126 pages. Price to non-members: $2.00. To members for extra copies: $1.50.

Book of A.S.T.M. Tentative Standards.—The 1923 edition (859 pp.) contains 190 tentative standards issued by the Society. Prices to non-members: paper $7.00, cloth, $8.00. Prices to members for extra copies: $4.50 and $5.50, respectively. [Out of Print. 1924 Edition ready in October.]

Separate Standards and Tentative Standards.—Separate copies of all standards and tentative standards are available. The price is 25 cents for a single copy and in lots up to 50. Larger quantities are furnished at lower prices.

Complete Sets of Proceedings from 1902 to 1923, inclusive (with the exception of Vols. I and III). Special prices are made to members for extra copies and for complete sets. Binding in paper, cloth or half-leather.

Index to Proceedings, Vols. XIII to XX.—An index to the Proceedings for the years 1913 to 1920, inclusive (189 pp.), containing both an author and subject index of the committee reports and technical papers including the discussions. Prices to non-members: cloth $2.50, half-leather $3.50. To members: cloth, $1.75, half-leather $2.75, respectively.

Miscellaneous.—Volume of annual reports of Committee D-1 on Preservative Coatings for Structural Materials for the years 1903-1914 (567 pp.). Price, $5.00 in cloth.

Inquiries and orders should be directed to:

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